Corrections

GEOPHYSICS

Correction for "Large and unexpected enrichment in stratospheric $^{16}O^{13}C^{18}O$ and its meridional variation," by Laurence Y. Yeung, Hagit P. Affek, Katherine J. Hoag, Weifu Guo, Aaron A. Wiegel, Elliot L. Atlas, Sue M. Schauffler, Mitchio Okumura, Kristie A. Boering, and John M. Eiler, which appeared in issue 28, July 14, 2009, of *Proc Natl Acad Sci USA* (106:11496–11501; first published June 29, 2009; 10.1073/pnas.0902930106).

The authors note that the department affiliations for authors Katherine J. Hoag and Aaron A. Wiegel at the University of California, Berkeley, were inadvertently switched. Instead of the Department of Chemistry, the affiliation for Katherine J. Hoag should have appeared as the Department of Earth and Planetary Science, University of California, Berkeley, CA 94720. Instead of the Department of Earth and Planetary Science, the affiliation for Aaron A. Wiegel should have appeared as the Department of Chemistry, University of California, Berkeley, CA 94720. The corrected author and affiliation lines appear below. In addition, the authors note that the program Kintecus (48) was used to model the laboratory continuous irradiation experiments described in the "*Field and Laboratory Results*" section, but the related reference was not cited. The reference appears below. Finally, the authors note that the legend for Fig. 2 *B* and *C* appeared incorrectly in part. In line 5, the words "**lines of Δ_{47} vs. $\delta^{18}O$ (*B*) and Δ_{47} vs. $\Delta^{17}O$ (*C*)**" should instead have appeared as "**lines of Δ_{47} vs. $\Delta^{17}O$ (*B*) and Δ_{47} vs. $\delta^{18}O$ (*C*)**". Due to a printer's error, in the same legend, the reaction in line 7, "$O(^1D)+CO^2$," should instead have appeared as "$O(^1D)+CO_2$." The figure and its corrected legend appear below.

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48. Ianni JC (2003) A comparison of the Bader–Deuflhard and the Cash–Karp Runge–Kutta integrators for the GRI-MECH 3.0 model based on the chemical kinetics code Kintecus. Computational Fluid and Solid Mechanics 2003, ed Bathe KJ (Elsevier), pp 1368–1372.

www.pnas.org/cgi/doi/10.1073/pnas.0911372106

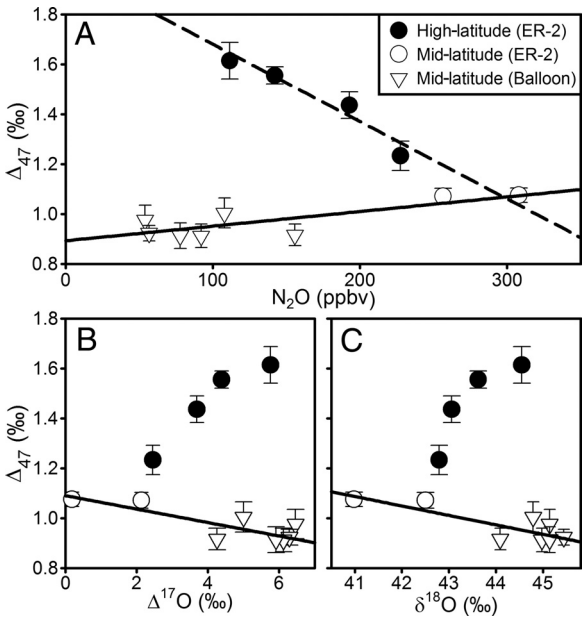

Fig. 2. Correlations between Δ_{47} and stratospheric tracers. (*A*), best-fit lines are shown for midlatitude (solid line) and high-latitude (dashed line) Δ_{47} vs. N_2O mixing ratio. Correlations between Δ_{47} and other tracers with tropospheric sources and stratospheric sinks are similar (see *SI*). (*B* and *C*) Best-fit lines of Δ_{47} vs. $\Delta^{17}O$ (*B*) and Δ_{47} vs. $\delta^{18}O$ (*C*) in midlatitude air, which are used to estimate the integrated effective isotopic composition of stratospheric $O(^1D)$ (see *$O(^1D)+CO_2$ Explains Midlatitude but Not Polar Vortex $^{16}O^{13}C^{18}O$ Variations* and *Materials and Methods*). Error bars show 2σ standard errors.

CORRECTIONS